## Amendments to the Claims:

The following Listing of Claims will replace all prior versions and listings of claims in the application:

## **Listing of Claims**

- 1. (Currently amended) A process for analyzing a biological sample, comprising the steps of:
  - (a) identifying a micro-organism present within the sample; and
- (b) determining the effect of one or more antimicrobial(s) on a microorganism from the sample, wherein determining the effect of one or more antimicrobial(s) comprises adding an antimicrobial at a pre-determined concentration to a sample, incubating the sample in the presence of the antimicrobial for a predetermined time period under conditions that allow some growth of the microorganism, and assessing the number of microorganisms in the sample at the end of the pre-determined time period;

wherein identifying a micro-organism present in the sample comprises identifying a micro-organism species;

wherein steps (a) and (b) are performed by analyzing the microorganism's nucleic acid.

- 2. (Original) The process of claim1, wherein step (a) involves a nucleic acid hybridization assay.
- 3. (Currently amended) The process of claim 1 or claim 2, wherein step (b) involves a nucleic acid hybridization assay.
- 4. (Currently amended) The process of claim 1 or elaim 2, wherein step (a) and/or step (b) involves amplification of nucleic acid from the micro-organism.
- 5. (Original) The process of claim 4, wherein nucleic acid amplification uses the polymerase chain reaction.

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6. (Previously presented) The process of claim 4, wherein nucleic acid amplification uses primers which are specific to a micro-organism of interest.

- (Previously presented) The process of claim 1, wherein the micro-organism's
  DNA is analysed.
- 8. (Previously presented) The process of claim 1, wherein the micro-organism's RNA is analysed.
- 9. (Original) The process of claim 7 or claim 8, wherein said DNA or RNA is a rRNA or rDNA.
- 10. (Previously presented) The process of claim 1, wherein micro-organisms are extracted from the sample prior to step (a).
- 11. (Previously presented) The process of claim 10, wherein micro-organisms are extracted by immunomagnetic separation.
- 12. (Previously presented) The process of claim 1, wherein the antimicrobial(s) used in step (b) are selected based on the results of step (a).
- 13. (Previously presented) The process of claim 1, wherein step (b) involves a comparison with data obtained in step (a).
- 14. (Previously presented) The process of claim 1, wherein the micro-organism is a bacterium, a fungus, a parasite or a virus.
- 15. (Previously presented) The process of claim 1, wherein the antimicrobial is an antibiotic, an antimycotic or an antiviral.

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16. (New) The process of claim 2, wherein the process comprises the use of a probe.

- 17. (New) The process of claim 16, wherein the probe is a labelled probe.
- 18. (New) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises determination of at least a part of the microorganism's genome sequence.
- 19. (New) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises determination of restriction fragment length polymorphism or amplified rDNA restriction analysis.